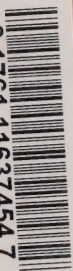


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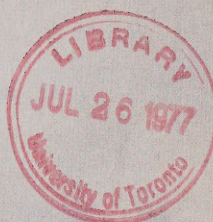
Statistical Review of Coal in Canada

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Statistical Review of COAL in Canada 1976



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COAL IN CANADA SUPPLY AND DEMAND 1976

PREPARED by the Energy Policy Sector
Department of Energy Mines & Resources

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GOAL IN CANADA
SUNNY AND CEMETARY 1975

*Minister of Supply and Services Canada 1977

FOREWORD

Canadian production of all types of coal totalled 28,082,000 short tons in 1976 valued at \$608 million at the mines. In terms of tonnage, bituminous coal accounted for 51 per cent, sub-bituminous 25 per cent and lignite 18 per cent. Of the total production, 85 per cent or 23,925 tons were mined by surface methods, with the remainder from underground. Alberta continued to remain Canada's leading province in terms of tonnage, and also in terms of the Btu content of the coals produced.

In the field of coal trade in Canada, 13,070,000 tons, valued at \$616 million was exported with the principal quantity going to Japan. This represents 47 per cent of total Canadian production. In 1976 other destinations included Korea, Denmark, West Germany, Mexico, and Sweden. It is estimated that 92 per cent of the exports were metallurgical coal and the remainder were thermal coal for electricity generation. In 1976 imports reached 16,118,000 tons valued at \$686 million, up sharply from the previous year. Most of the imported coal from West Virginia and Pennsylvania was shipped to Ontario.

In 1976 coal demand in Canada reached a record level of 44 million tons of which about 48 per cent was for use in thermal power generation, 30 per cent for export and 19 per cent for the Canadian steel industry. As of December 31, 1976, 13,947,000 tons of coal were stockpiled in Canada, an increase from the previous year when stockpiles were partially depleted.

In relation to other energy sources, domestically produced bituminous, sub-bituminous, and lignite, plus imported coal comprised 10.2 per cent of the total energy supply in Canada during the year representing a significant contribution to the energy balance.

Canada's coal industry is entering a period of expansion based on an increased demand both domestically and internationally. The principal uses for coal are expected in thermal power generation and making coke for the steel industry. However there appears to be a trend toward coal use by general industry, particularly in eastern Canada. In the future exports, while continuing to increase, will represent a smaller percentage of the domestic output.

Table 1

SUMMARY OF COAL SUPPLY BY TYPE AND VALUES 1972 — 1976

1) DOMESTIC	1972		1973		1974		1975		1976	
	Tons (000)	(\$000)	Tons (000)	(\$000)	Tons (000)	(\$000)	Tons (000)	(\$000)	Tons (000)	(\$000)
Bituminous	12,521	133,394	13,599	159,973	13,824	273,634	17,401	543,400	15,861	570,427
Sub-bituminous	4,905	10,654	4,940	11,258	5,595	20,875	6,568	23,500	7,065	25,000
Lignite	3,283	6,552	4,028	8,500	3,842	8,317	3,912	8,900	5,156	13,039
TOTAL	20,709	150,600	22,567	179,731	23,261	302,826	27,881	575,800	28,082	608,466 (P)
2) IMPORTED										
Bituminous & Anthracite	18,569	273,500	16,639	289,700	13,636	354,600	17,438	670,923	16,118	686,473
TOTAL COAL SUPPLY	39,278	424,100	39,206	469,431	36,897	657,426	45,319	1,246,723	44,200	1,294,939

¹ F.O.B. Mines² Value at U.S. ports of exit

(P) Preliminary

Table 2

COAL PRODUCTION 1976

(Thousands of Short Tons)

	Surface	Underground	Total
BITUMINOUS			
Nova Scotia	—	2,205	2,205
New Brunswick	327	—	327
Alberta	4,011	1,041	5,052
British Columbia	7,408	869	8,277
SUB-TOTAL	11,746	4,115	15,861
SUB-BITUMINOUS			
Alberta	7,023	42	7,065
LIGNITE			
Saskatchewan	5,156	—	5,156
TOTAL PRODUCTION	23,925	4,157	28,082

Table 3

IMPORTS OF COAL INTO CANADA 1976
(Thousands of Short Tons)

	Anthracite	Bituminous	Briquettes	Total
Nova Scotia	—	8	—	8
New Brunswick	—	—	—	—
Quebec	261	331	—	592
Ontario	46	15,451	10	15,507
Manitoba	—	—	2	2
Saskatchewan	—	—	8	8
British Columbia	—	—	1	1
TOTAL	307	15,790	21	16,118

Table 4

1976
(Thousands of Short Tons)

ORIGINATING PROVINCES

DESTINATION	Nova Scotia	New Brunswick	Saskatchewan	Alberta	British Columbia	Canada
Railways in Canada	—	—	64	—	—	64
Newfoundland	1	—	—	—	—	1
Prince Edward Island	16	—	—	—	—	16
Nova Scotia	1,107	11	—	40	—	1,158
New Brunswick	55	228	—	—	—	283
Quebec	57	88	—	—	—	145
Ontario	88	—	45	275	199	607
Manitoba	—	—	1,393	20	60	1,473
Saskatchewan	—	—	3,649	508	—	4,157
Alberta	—	—	—	6,440	—	6,440
British Columbia	—	—	—	12	257	269
TOTAL CANADA	1,324	327	5,151	7,295	516	14,613
United States	—	—	3	—	—	3
Japan	—	—	—	4,832	7,087	11,919
Other	615	—	—	44	489	1,148
TOTAL SHIPMENTS	1,939	327	5,154	12,171	8,092	27,683

† Saleable Coal (raw coal, clean and middling sales)

Table 5

COAL DEMAND IN 1976 BY TYPES OF CONSUMERS

(Thousands of Short Tons)

DEMAND	Canadian coal	Imported coal	Total	Per cent
DOMESTIC				
Thermal Power Generation	12,958	8,035	20,993	47.5
Metallurgical Uses	793	7,352	8,145	18.5
Other Industries	671	1,060	1,731	3.9
Space Heating	208	30	238	0.5
Exports	13,070	—	13,070	29.6
TOTAL DEMAND	27,700	16,477	44,177	100.0

Table 6

DEMAND BY TYPES OF COAL
1976

(Thousands of Short Tons)

DEMAND	Bituminous	Sub-bituminous	Lignite	Anthracite
THERMAL POWER GENERATION				
Canadian Coal	1,631	6,912	4,415	—
Imported Coal	8,035	—	—	—
METALLURGICAL				
Canadian Coal	793	—	—	—
Imported Coal	7,352	—	—	—
OTHER INDUSTRIES				
Canadian Coal	285	10	376	—
Imported Coal	724	—	—	336
SPACE HEATING				
Canadian Coal	86	116	6	—
Imported Coal	20	—	—	10
EXPORTS				
Canadian Coal	13,070	—	—	—
TOTAL DEMAND	31,996	7,038	4,797	346
PER CENT	72.4	15.9	10.9	0.8

Table 7

COAL IN STOCKPILES
(Thousands of Short Tons)

	Stocks December 31 1975	Stocks December 31 1976	Change in stocks
CANADIAN COAL			
Thermal Electric Plants	1,333	1,234	- 99
Steel Plants	445	183	-262
General Industry & Space Heating	61	74	+ 13
Collieries	1,156	897	-259
TOTAL	2,995	2,388	-607
IMPORTED BITUMINOUS			
Thermal Electric Plants	8,273	8,068	-205
Steel Plants	2,391	2,800	+409
General Industry & Space Heating	802	597	-205
TOTAL	11,466	11,465	- 1
IMPORTED ANTHRACITE			
General Industry & Space Heating	170	94	- 76
GRAND TOTAL	14,631	13,947	-684

Table 8

EXPORT DEMAND FOR CANADIAN COAL

COUNTRY	1975		1976	
	ST (000)	\$ (000)*	ST (000)	\$ (000)*
Japan	11,640	515,102	11,919	580,893
United States	73	2,682	3	30
Denmark	150	3,346	250	5,854
United Kingdom	375	11,115	22	526
France	295	6,142	90	1,759
Korea	—	—	327	16,035
Germany	—	—	316	6,550
Sweden	—	—	60	1,156
Mexico	—	—	56	2,704
Other	103	2,964	27	600
TOTAL	12,600	541,351	13,070	616,107

*F.O.B. port of exit.

Table 9

**SUMMARY OF COAL DEMAND
1972-1976**

(Thousands of Short Tons)

DEMAND	1972	1973	1974	1975	1976
THERMAL ELECTRIC					
Canadian Coal	8,355	9,309	9,618	10,894	12,958
Imported Coal	8,373	7,262	7,388	7,336	8,035
TOTAL	16,728	16,571	17,006	18,230	20,993
METALLURGICAL					
Canadian Coal	492	771	811	1,044	793
Imported Coal	6,666	7,738	7,457	6,996	7,352
TOTAL	7,158	8,509	8,268	8,040	8,145
GENERAL INDUSTRY					
Canadian Coal	746	691	608	671	671
Imported Coal	1,504	1,379	1,123	891	1,060
TOTAL	2,250	2,070	1,731	1,562	1,731
SPACE HEATING					
Canadian Coal	473	359	317	256	208
Imported Coal	98	42	33	35	30
TOTAL	571	401	350	291	238
EXPORTS					
Canadian Coal	9,421	11,341	11,600	12,600	13,070
TOTAL					
Canadian Coal	19,487	22,471	22,954	25,465	27,700
Imported Coal	16,641	16,421	16,001	15,258	16,477
TOTAL COAL DEMAND	36,128	38,892	38,955	40,723	44,177

Table 10

SUMMARY OF COAL DEMAND
1967 - 1976

(On a Percentage Basis)

Year	Tonnage (,000 Short Tons)	Electric power Industry	Steel Industry	General Industry	Space Heating	Exports
1967	26,385	34.5	22.2	31.0	7.2	5.1
1968	28,420	39.0	26.1	24.5	5.4	5.1
1969	27,419	43.4	25.5	21.3	4.8	5.0
1970	32,692	46.5	24.3	12.7	3.1	13.4
1971	35,670	48.3	20.1	7.8	2.1	21.7
1972	36,128	46.3	19.8	6.2	1.6	26.1
1973	38,892	42.6	21.9	5.3	1.0	29.2
1974	38,955	43.7	21.2	4.4	0.9	29.8
1975	40,723	44.8	19.8	3.8	0.7	30.9
1976	44,177	47.5	18.5	3.9	0.5	29.6

Table 11

SUMMARY OF COAL SUPPLY-DEMAND
1967 - 1976

(Millions of short tons)

CANADA

PRODUCTION

IMPORTS

YEARS	Bituminous	Sub- Bituminous	Lignite	Total	Anthracite	Bituminous	Total Available	Domestic Consumption	Exports
1967	6.5	2.6	2.0	11.1	0.6	15.2	26.9	25.0	1.3
1968	5.8	3.0	2.2	11.0	0.5	16.8	28.3	27.0	1.4
1969	5.5	3.2	2.0	10.7	0.5	16.7	27.9	26.0	1.4
1970	8.9	3.9	3.8	16.6	0.5	18.9	36.0	28.3	4.4
1971	10.7	4.4	3.3	18.4	0.5	17.3	36.2	27.9	7.7
1972	12.5	4.9	3.3	20.7	0.5	18.1	39.3	6.7	9.4
1973	13.6	5.0	4.0	22.6	0.5	16.1	39.2	27.6	11.3
1974	13.8	5.6	3.9	23.3	0.4	13.2	36.9	27.4	11.6
1975	17.4	6.6	3.9	27.9	0.4	17.0	45.3	28.1	12.6
1976	15.9	7.1	5.1	28.1	0.3	15.8	44.2	31.1	13.1

Table 12

SUMMARY OF COAL SUPPLY AND DEMAND

Equivalent Bituminous Coal
(Thousands of Short Tons)

Supply	1972	1973	1974	1975	1976
Canada Production	17,433	18,915	19,477	23,730	23,154
IMPORTED	18,558	16,632	13,628	17,420	16,097
TOTAL SUPPLY	35,991	35,547	33,105	41,150	39,251
Demand					
Electric Power Industry	13,825	13,297	13,642	14,475	16,479
Steel Industry	7,158	8,509	8,268	8,040	8,145
General Industry & Space Heating	2,529	2,209	1,806	1,594	1,739
EXPORTS	9,421	11,341	11,600	12,600	13,070
TOTAL DEMAND	32,933	35,356	35,316	36,709	38,433

Conversion factor Bituminous 25.8 millions BTU
 Sub-Bituminous 17.0 millions BTU
 Lignite 13.2 millions BTU
 Anthracite 25.8 millions BTU

Table 13

ENERGY SOURCES BY PHYSICAL UNITS 1955-1976

	Bituminous (,000 ST)	Sub- Bituminous & Lignite (,000 ST)	Total Domestic (,000 ST)	Imported Coal & Coke (,000 ST)	Total All Coal & Coke (,000 ST)	Hydro- Electric Power M.M.K.W.H.	Natural Gas Produced & Imported M.C.F.	Imported Crude & Petroleum Products M. BBLs	Domestic Crude Oil Supply M. BBLs	Total Crude & Imported Petroleum Products M. BBLs
1955	9,609	5,209	14,818	20,231	35,049	75,277	196,599	122,355	130,309	252,644
1956	9,792	5,123	14,915	23,241	38,156	81,839	243,096	141,889	174,576	316,465
1957	8,631	4,558	13,189	20,204	33,393	83,373	323,642	144,439	184,828	329,267
1958	7,459	4,228	11,687	14,838	26,525	90,509	438,026	134,276	168,313	302,589
1959	6,719	3,907	10,626	14,644	25,270	97,039	480,182	151,789	190,447	342,236
1960	7,180	3,831	11,011	13,878	24,889	105,882	583,164	158,265	198,640	356,905
1961	6,743	3,654	10,397	12,605	23,002	103,919	738,438	160,125	234,687	394,812
1962	6,459	3,825	10,284	12,869	23,153	104,050	1,043,900	162,412	268,319	430,731
1963	6,987	3,588	10,575	13,603	24,178	103,831	1,211,333	178,976	287,405	466,381
1964	7,149	4,170	11,319	15,312	26,631	113,343	1,406,692	182,289	299,850	482,139
1965	6,963	4,625	11,588	17,173	28,761	117,063	1,459,619	200,905	341,612	542,517
1966	6,724	4,667	11,391	17,028	28,419	129,834	1,678,859	201,082	369,786	570,868
1967	6,720	4,675	11,395	16,492	27,887	132,747	1,830,091	238,204	404,643	642,847
1968	5,779	5,229	11,008	17,308	28,316	134,972	2,086,019	248,365	438,104	686,469
1969	5,456	5,215	10,671	17,635	28,306	149,246	2,325,791	263,786	477,625	741,411
1970	8,865	7,739	16,604	19,269	35,873	156,708	2,637,803	275,724	539,330	815,054
1971	10,706	7,726	18,432	18,791	37,223	160,497	2,841,913	299,733	578,344	878,077
1972	12,521	8,188	20,709	19,783	40,492	178,117	3,331,912	332,000	670,457	1,002,457
1973	13,599	8,968	22,567	16,883	39,450	193,060	3,581,473	370,377	772,256	1,142,633
1974	13,824	9,437	23,264	14,230	37,491	210,170	3,509,228	329,745	710,100	1,039,845
1975	17,401	10,480	27,881	17,436	45,317	202,404	3,516,573	316,181	633,273	949,454
1976	15,861	12,221	28,082	16,409	44,491	213,089	3,516,375	284,809	581,743	866,552

Table 14

ENERGY SOURCES BY ENERGY UNITS 1955 - 1976
BILLIONS OF B.T.U.

	Bituminous	Sub- Bituminous & Lignite	Total Domestic	Imported Coal and Coke	Total All Coal & Coke	Hydro- Electric Power	Natural Gas Produced & Imported	Imported Crude & Petroleum Products	Domestic Crude Oil Supply	Total Crude & Imported Petroleum Products	Grand Total
Conversion Factor .027		.016405		.027		.00341219	.00105	.0058	.0058	.0058	
1955	259,443	85,454	344,897	546,237	891,134	256,859	206,429	709,659	755,792	1,465,451	2,819,873
1956	264,384	84,043	348,427	627,507	975,934	279,250	255,251	822,956	1,012,541	1,835,497	3,345,932
1957	233,037	74,774	307,811	545,508	853,319	284,485	339,824	837,746	1,072,002	1,909,748	3,387,376
1958	201,393	69,360	270,753	400,626	671,379	308,834	459,927	778,801	976,215	1,755,016	3,195,156
1959	181,413	64,094	245,507	395,388	640,895	331,116	504,191	880,376	1,104,593	1,984,969	3,461,171
1960	193,860	62,848	256,708	374,706	631,414	361,290	612,322	917,937	1,152,112	2,070,049	3,675,075
1961	182,061	59,944	242,005	340,335	582,340	354,591	775,360	928,725	1,361,185	2,289,910	4,002,201
1962	174,393	62,749	237,142	347,463	584,605	355,038	1,096,005	941,990	1,556,250	2,498,240	4,533,888
1963	188,649	58,861	247,510	367,281	614,791	354,291	1,271,900	1,038,061	1,666,949	2,705,010	4,945,992
1964	193,023	68,409	261,432	413,424	674,856	386,748	1,477,027	1,057,276	1,739,130	2,796,406	5,335,037
1965	188,001	75,873	263,874	463,671	727,545	399,441	1,532,600	1,165,249	1,981,350	3,146,599	5,806,185
1966	181,548	76,562	258,110	459,756	717,866	443,018	1,762,802	1,166,276	2,144,759	3,311,035	6,234,721
1967	181,440	76,693	258,133	445,154	703,287	452,958	1,921,596	1,381,583	2,346,929	3,728,512	6,806,353
1968	156,033	85,782	241,815	467,316	709,131	460,550	2,190,320	1,440,517	2,541,003	3,981,520	7,341,521
1969	147,312	85,552	232,864	476,145	709,009	509,256	2,442,081	1,529,959	2,770,225	4,300,184	7,960,530
1970	239,355	126,958	306,313	520,263	886,576	534,717	2,769,699	1,599,199	3,128,114	4,727,313	8,918,305
1971	289,062	126,745	415,807	507,357	923,164	547,646	2,984,009	1,738,451	3,354,395	5,092,846	9,547,665
1972	338,067	134,324	472,391	534,141	1,006,532	607,769	3,498,508	1,925,600	3,888,651	5,814,251	10,927,060
1973	367,173	147,120	514,293	455,841	970,134	658,757	3,760,547	2,148,187	4,479,085	6,627,272	12,016,710
1974	373,248	154,814	528,062	384,210	912,272	717,140	3,684,689	1,912,521	4,118,580	6,031,101	11,345,202
1975	469,827	171,924	641,751	470,772	1,112,523	700,859	3,692,402	1,833,850	3,672,983	5,506,833	11,012,617
1976	428,247	200,485	628,732	443,043	1,071,775	727,710	3,692,194	1,651,892	3,374,109	5,026,001	10,517,680

Table 15

ENERGY SOURCES FROM 1955 TO 1976 BY PERCENTAGE OF TOTAL

CANADIAN PRODUCTION

Grand Total

	Bituminous	Sub- Bituminous & Lignite	Total domestic	Imported coal and coke	Total all Coal & Coke	Hydro- electric Power	Natural Gas Produced & Imported	Imported Crude & Petroleum Products	Domestic Crude Oil Supply	Total Crude & Imported Petroleum Products	%	M.M.M. B.T.U.
1955	9.2	3.0	12.2	19.4	31.6	9.1	7.3	25.2	26.8	52.0	100.0	2,819,880
1956	7.9	2.5	10.4	18.8	29.2	8.3	7.6	24.6	30.3	54.9	100.0	3,345,943
1957	6.9	2.2	9.1	16.1	25.2	8.4	10.0	24.7	31.7	56.4	100.0	3,387,378
1958	6.3	2.2	8.5	12.5	21.0	9.7	14.4	24.4	31.5	54.9	100.0	3,195,178
1959	5.2	1.9	7.1	11.4	18.5	9.5	14.6	25.5	31.9	57.4	100.0	3,461,172
1960	5.3	1.7	7.0	10.2	17.2	9.8	16.7	25.0	31.3	56.3	100.0	3,675,082
1961	4.5	1.5	6.0	8.5	14.5	8.9	19.4	23.2	34.0	57.2	100.0	4,002,230
1962	3.8	1.4	5.2	7.7	12.9	7.8	24.2	20.8	34.3	55.1	100.0	4,534,006
1963	3.8	1.2	5.0	-7.4	12.4	7.2	25.7	21.0	33.7	54.7	100.0	4,946,035
1964	3.6	1.3	4.9	7.8	12.7	7.2	27.7	19.8	32.6	52.4	100.0	5,335,050
1965	3.2	1.3	4.5	8.0	12.5	6.9	26.4	20.1	34.1	54.2	100.0	5,806,206
1966	2.9	1.2	4.1	7.4	11.5	7.1	28.3	18.7	34.4	53.1	100.0	6,234,747
1967	2.7	1.1	3.8	6.5	10.3	6.7	28.2	20.3	34.5	54.8	100.0	6,806,510
1968	2.1	1.2	3.3	6.4	9.7	6.3	29.8	19.6	34.6	54.2	100.0	7,341,536
1969	1.8	1.1	2.9	6.0	8.9	6.4	30.7	19.2	34.8	54.0	100.0	7,960,534
1970	2.7	1.4	4.1	5.8	9.9	6.0	31.3	17.9	35.1	53.0	100.0	8,918,312
1971	3.0	1.3	4.3	5.4	9.7	5.8	31.2	18.2	35.1	53.3	100.0	9,547,665
1972	3.1	1.2	4.3	4.9	9.2	5.6	32.0	17.6	35.6	53.2	100.0	10,927,060
1973	3.1	1.2	4.3	3.8	8.1	5.5	31.3	17.9	37.2	55.1	100.0	12,016,710
1974	3.3	1.4	4.7	3.4	8.1	6.3	32.5	16.8	36.3	53.1	100.0	11,345,202
1975	4.3	1.5	5.8	4.3	10.1	6.4	33.5	16.6	33.4	50.0	100.0	11,012,617
1976	4.1	1.9	6.0	4.2	10.2	6.9	35.1	15.7	32.1	47.8	100.0	10,517,680

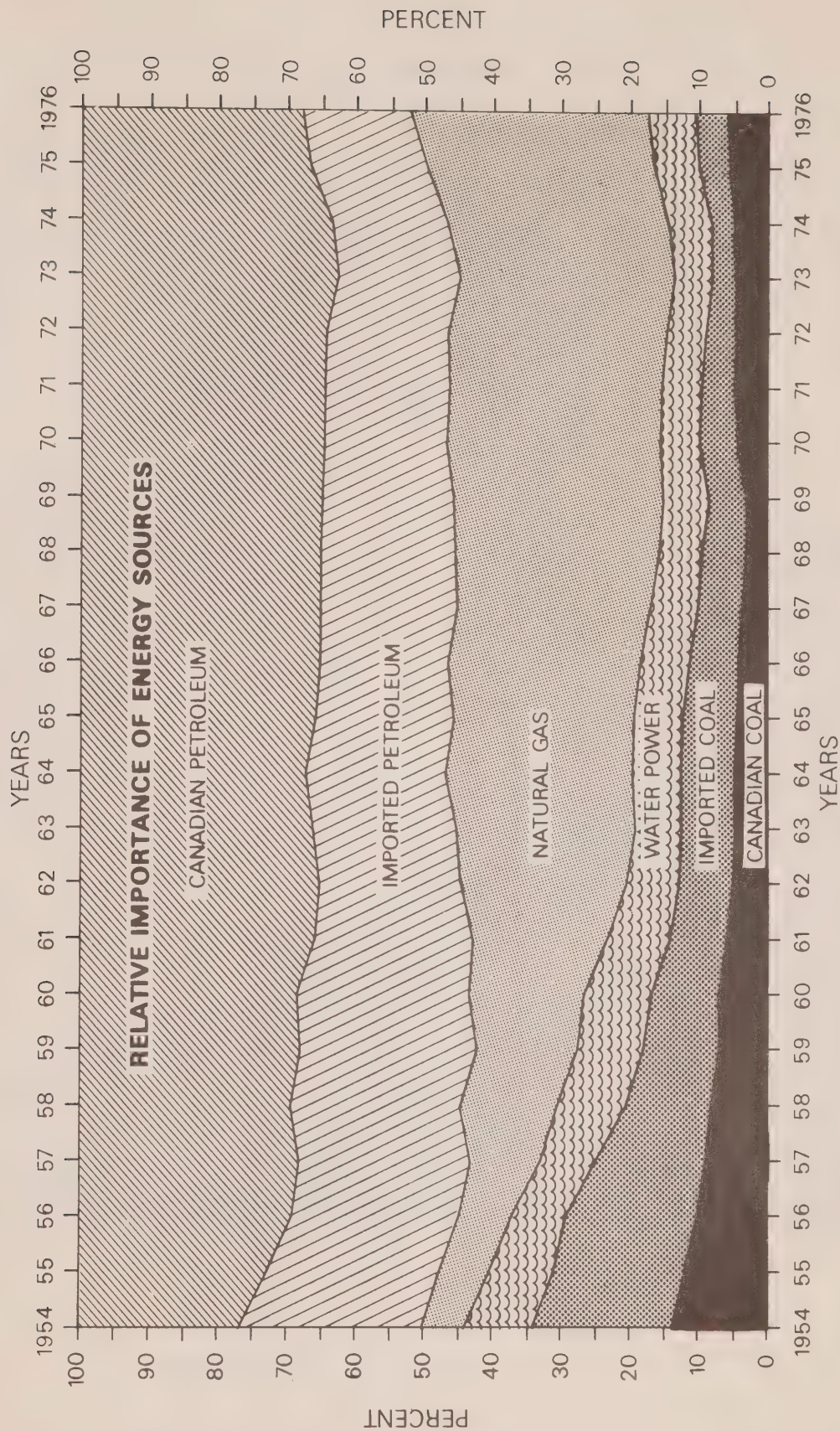


Figure 1

COAL TRENDS IN CANADA

REFERENCE

- TOTAL COAL CONSUMPTION ———
- U.S. BITUMINOUS IMPORTS - - - - -
- CANADIAN PRODUCTION ———
- ANTHRACITE IMPORTS - - - - -

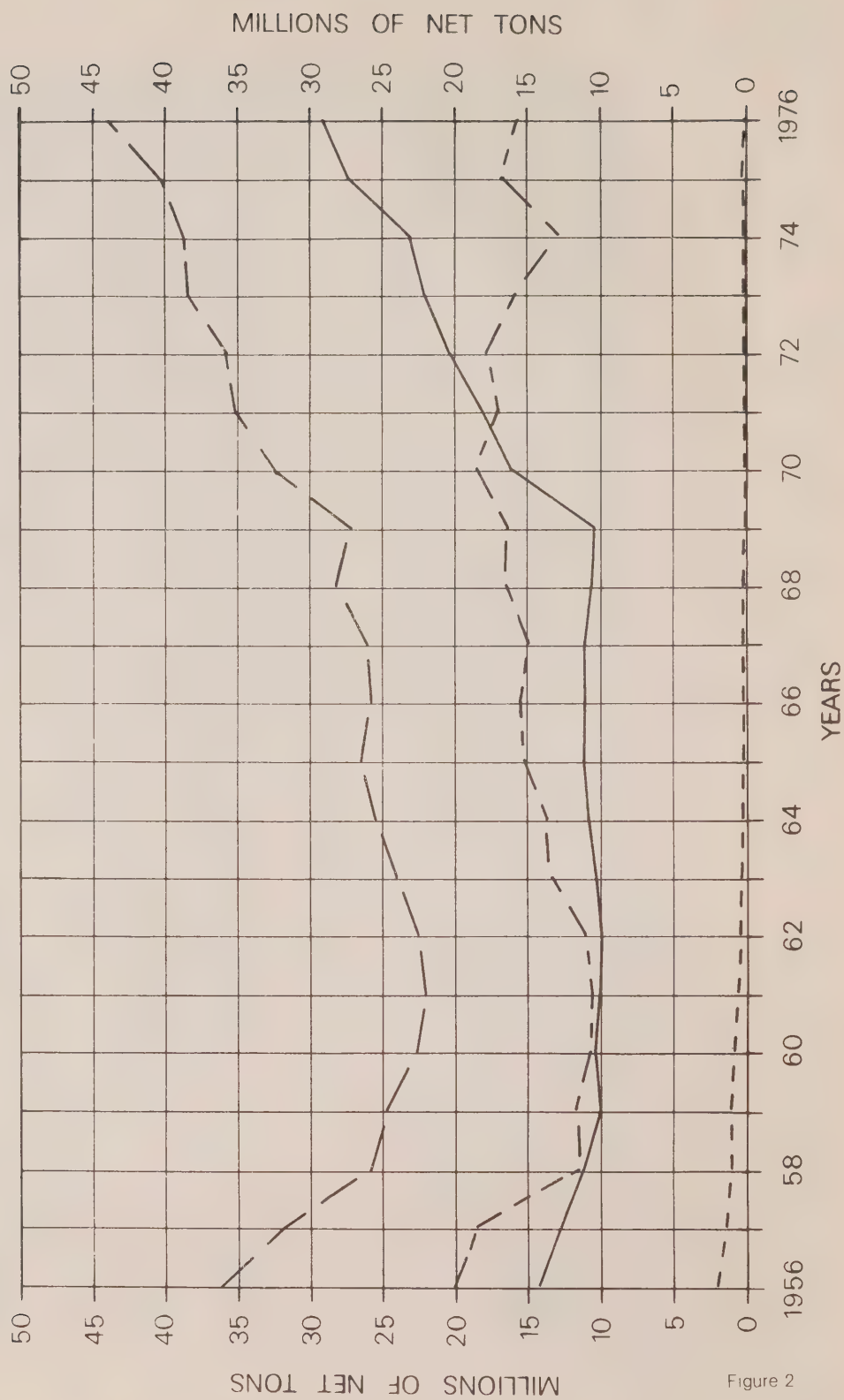
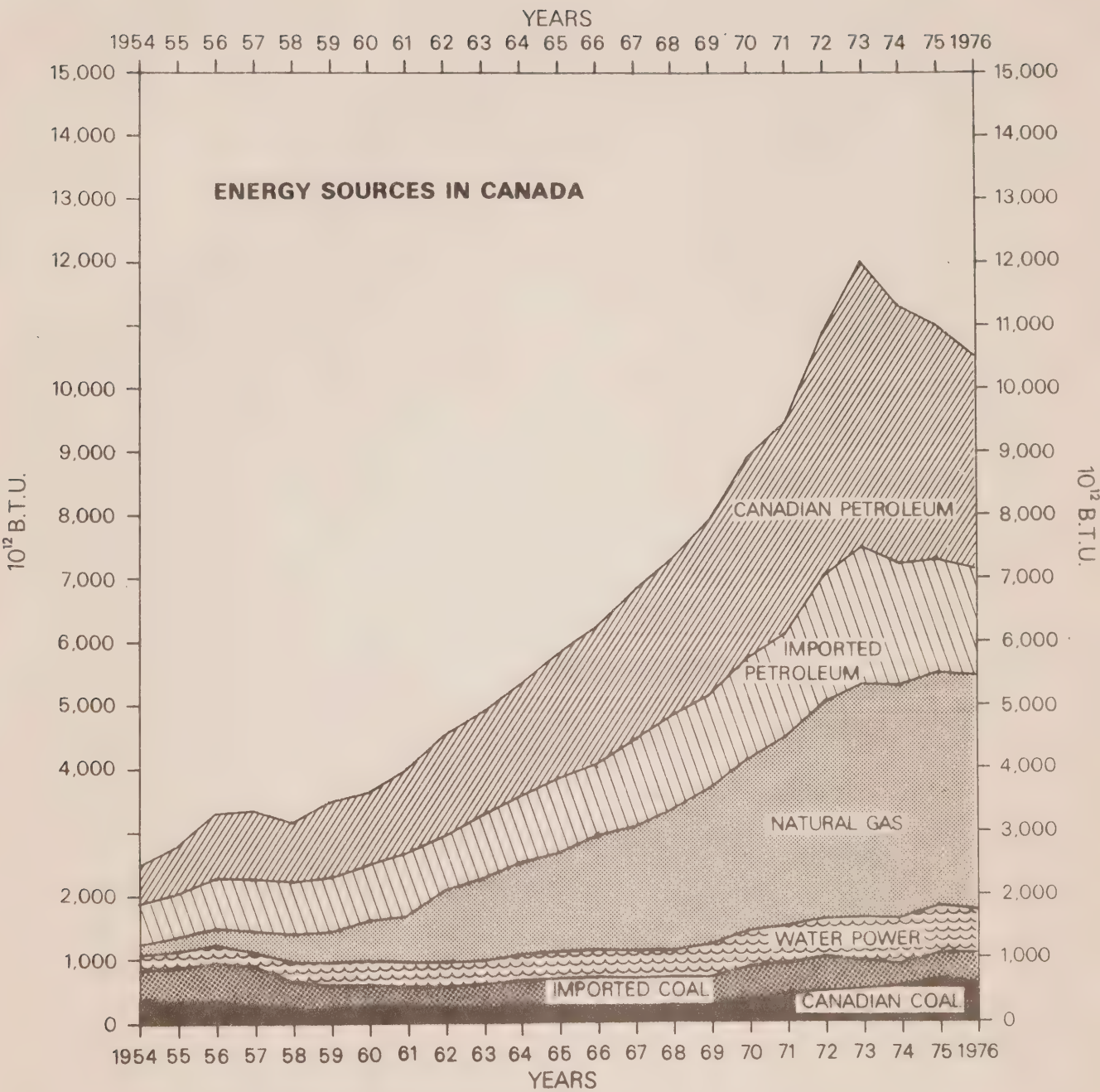


Figure 2

Figure 3



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Energy, Mines and
Resources Canada

Énergie, Mines et
Ressources Canada

Statistical Review of Coal in Canada 1978

Report EI 79-6



FOREWORD

Canadian production of all types of coal totalled 33,595,000 short tons in 1978 valued at \$776 million at the mines. In terms of tonnage, bituminous coal accounted to 56 per cent, sub-bituminous 27 per cent and lignite 17 per cent. Of the total production, 85 per cent or 28,714,000 tons were mined by surface methods, with the remainder from underground. Alberta continued to remain Canada's leading province in terms of tonnage, and also in terms of the Btu content of the coals produced.

In the field of coal trade in Canada, 15,433,000 tons, valued at \$791 million was exported with the principal quantity going to Japan. This represents 46 per cent of total Canadian production. In 1978 other destinations included Korea, Denmark, West Germany, Mexico, Brazil and Sweden. It is estimated that 93 per cent of the exports were metallurgical coal and the remainder were thermal coal for electricity generation. In 1978 imports reached 15,564,000 tons valued at \$790 million. Most of the imported coal from West Virginia and Pennsylvania was shipped to Ontario.

In 1978 coal demand in Canada reached a record level of 50 million tons of which about 50 per cent was for use in thermal power generation, 31 per cent for export and 15 per cent for the Canadian steel industry. As of December 31, 1978, 13,697,000 tons of coal were stockpiled in Canada, an increase from the previous year.

In relation to other energy sources, domestically consumed bituminous, sub-bituminous, and lignite, plus imported coal comprised 8.9 per cent of the total energy supply in Canada during the year representing a significant contribution to the energy balance.

Table 1

SUMMARY OF COAL SUPPLY BY TYPE AND VALUES
1974 - 1978
Short Tons

1) DOMESTIC	1974		1975		1976		1977		1978 P	
	Tons (000)	(\$000)	Tons (000)	(\$000)	Tons (000)	(\$000)	Tons (000)	(\$000)	Tons (000)	(\$000)
Bituminous	13,824	273,634	17,401	552,797	15,861	570,427	16,867	623,613	18,895	718,469
Sub-bituminous	5,595	20,875	6,568	23,992	7,065	25,000	8,710	29,962	9,125	36,135
Lignite	3,842	8,317	3,912	9,634	5,156	13,039	6,039	20,762	5,575	21,520
TOTAL	23,261	302,826	27,881	586,423	28,082	608,466	31,615	674,337	33,595	776,124
2) IMPORTED										
Bituminous & Anthracite Briquettes	13,636	354,600	17,438	670,923	16,118	686,473	17,018	772,000	15,564	789,704
TOTAL COAL SUPPLY	36,897	657,426	45,319	1,257,346	44,200	1,294,939	48,634	1,446,337	49,159	1,565,828

- 1 FOB Mines
2 Value at US ports of exit
(P) Preliminary

Table 1

SUMMARY OF COAL SUPPLY BY TYPE AND VALUES
1974 - 1978
Metric Tonnes

1) DOMESTIC	1974		1975		1976		1977		1978 P	
	Tonnes (000)	(\$000)	Tonnes (000)	(\$000)	Tonnes (000)	(\$000)	Tonnes (000)	(\$000)	Tonnes (000)	(\$000)
Bituminous	12,541	273,634	15,786	552,797	14,389	570,427	15,301	623,613	17,141	718,469
Sub-bituminous	5,076	20,875	5,958	23,992	6,409	25,000	7,902	29,962	8,278	36,135
Lignite	3,485	8,317	3,549	9,634	4,677	13,039	5,478	20,762	5,058	21,520
TOTAL	21,102	302,826	25,293	586,423	25,475	608,466	28,681	674,337	30,477	776,124
2) IMPORTED										
Bituminous & Anthracite Briquettes	12,370	354,600	15,820	670,923	14,622	686,473	15,439	772,000	14,119	789,704
TOTAL COAL SUPPLY	33,472	657,426	41,113	1,257,346	40,097	1,294,939	44,120	1,446,337	44,596	1,565,828

- 1 FOB Mines
2 Value at US ports of exit
(P) Preliminary

Table 2

COAL PRODUCTION
1978
(Thousands of Short Tons)

	Surface	Underground	Total
BITUMINOUS			
Nova Scotia	52	2,869	2,921
New Brunswick	348	-	348
Alberta	4,240	1,398	5,638
British Columbia	9,409	579	9,988
SUB-TOTAL	14,049	4,846	18,895
SUB-BITUMINOUS			
Alberta	9,090	35	9,125
LIGNITE			
Saskatchewan	5,575	-	5,575
TOTAL PRODUCTION	28,714	4,881	33,595

Table 2

COAL PRODUCTION
1978
(Thousands of Metric Tonnes)

	Surface	Underground	Total
BITUMINOUS			
Nova Scotia	47	2,603	2,650
New Brunswick	315	-	315
Alberta	3,847	1,268	5,115
British Columbia	8,536	525	9,061
SUB-TOTAL	12,745	4,396	17,141
SUB-BITUMINOUS			
Alberta	8,246	32	8,278
LIGNITE			
Saskatchewan	5,058	-	5,058
TOTAL PRODUCTION	26,049	4,428	30,477

Table 3

IMPORTS OF COAL INTO CANADA
1978
(Thousands of Short Tons)

	Anthracite	Bituminous	Briquettes	Total
Nova Scotia	-	75	-	75
New Brunswick	-	-	-	-
Quebec	257	34	-	291
Ontario	79	15,101	2	15,182
Manitoba	-	3	2	5
Saskatchewan	-	-	10	10
British Columbia	-	-	1	1
TOTAL	336	15,213	15	15,564

Table 3

IMPORTS OF COAL INTO CANADA
1978
(Thousands of Metric Tonnes)

	Anthracite	Bituminous	Briquettes	Total
Nova Scotia	-	68	-	68
New Brunswick	-	-	-	-
Quebec	233	31	-	264
Ontario	72	13,699	2	13,773
Manitoba	-	3	2	5
Saskatchewan	-	-	9	9
British Columbia	-	-	1	1
TOTAL	305	13,801	14	14,120

Table 4

DISPOSITION OF DOMESTIC COAL PRODUCTION

1978

(Thousands of Short Tons)

ORIGINATING PROVINCES

DESTINATION	Nova Scotia	New Brunswick	Saskatchewan	Alberta	British Columbia	Canada
Railways in Canada	-	-	58	-	-	58
Newfoundland	2	-	-	-	-	2
Prince Edward Island	8	-	-	-	-	8
Nova Scotia	1,154	3	-	135	-	1,292
New Brunswick	64	181	-	-	-	245
Quebec	64	164	-	-	-	228
Ontario	788	-	103	557	380	1,828
Manitoba	-	-	531	15	63	609
Saskatchewan	-	-	4,873	484	-	5,357
Alberta	-	-	-	8,749	-	8,749
British Columbia	-	-	-	8	264	272
TOTAL CANADA	2,080	348	5,565	9,948	707	18,648
United States	-	-	9	-	4	13
Japan	-	-	-	4,462	7,682	12,144
Other	782	-	-	503	1,991	3,276
TOTAL SHIPMENTS	2,862	348	5,574	14,913	10,384	34,081

1 Saleable Coal (raw coal, clean and middling sales).

Table 4

DISPOSITION OF DOMESTIC COAL PRODUCTION

1978

(Thousands of Metric Tonnes)

ORIGINATING PROVINCES

DESTINATION	Nova Scotia	New Brunswick	Saskatchewan	Alberta	British Columbia	Canada
Railways in Canada	-	-	53	-	-	53
Newfoundland	2	-	-	-	-	2
Prince Edward Island	7	-	-	-	-	7
Nova Scotia	1,047	3	-	123	-	1,173
New Brunswick	58	164	-	-	-	222
Quebec	58	149	-	-	-	207
Ontario	715	-	93	505	345	1,658
Manitoba	-	-	482	14	57	553
Saskatchewan	-	-	4,421	439	-	4,860
Alberta	-	-	-	7,937	-	7,937
British Columbia	-	-	-	7	238	245
TOTAL CANADA	1,887	316	5,049	9,025	640	16,917
United States	-	-	8	-	4	12
Japan	-	-	-	4,048	6,969	11,017
Other	710	-	-	456	1,806	2,972
TOTAL SHIPMENTS	2,597	316	5,057	13,529	9,419	30,918

1 Saleable Coal (raw coal, clean and middling sales).

Table 5

COAL DEMAND IN 1978 BY TYPES OF CONSUMERS
(Thousands of Short Tons)

DEMAND	Canadian coal	Imported coal	Total	Per cent
DOMESTIC				
Thermal Power Generation	15,356	9,903	25,259	50.1
Metallurgical Uses	1,317	6,299	7,616	15.1
Other Industries	845	1,016	1,861	3.7
Space Heating	219	30	249	0.5
Exports	15,433	-	15,433	30.6
TOTAL DEMAND	33,170	17,248	50,418	100.0

Table 5

COAL DEMAND IN 1978 BY TYPES OF CONSUMERS
(Thousands of Metric Tonnes)

DEMAND	Canadian coal	Imported coal	Total	Per cent
DOMESTIC				
Thermal Power Generation	13,931	8,984	22,915	50.1
Metallurgical Uses	1,195	5,714	6,909	15.1
Other Industries	766	922	1,688	3.7
Space Heating	199	27	226	0.5
Exports	14,000	-	14,000	30.6
TOTAL DEMAND	30,091	15,647	45,738	100.0

Table 6

DEMAND BY TYPES OF COAL
1978
(Thousands of Short Tons)

DEMAND	Bituminous	Sub-bituminous	Lignite	Anthracite
THERMAL POWER GENERATION				
Canadian Coal	1,440	8,844	5,072	-
Imported Coal	9,903	-	-	-
METALLURGICAL				
Canadian Coal	1,317	-	-	-
Imported Coal	6,299	-	-	-
OTHER INDUSTRIES				
Canadian Coal	416	11	418	-
Imported Coal	631	-	-	385
SPACE HEATING				
Canadian Coal	61	150	8	-
Imported Coal	30	-	-	-
EXPORTS				
Canadian Coal	15,433	-	-	-
TOTAL DEMAND	35,530	9,005	5,498	385
PER CENT	70.4	17.9	10.9	0.8

Table 6

DEMAND BY TYPES OF COAL
1978
(Thousands of Metric Tonnes)

DEMAND	Bituminous	Sub-bituminous	Lignite	Anthracite
THERMAL POWER GENERATION				
Canadian Coal	1,307	8,023	4,601	-
Imported Coal	8,984	-	-	-
METALLURGICAL				
Canadian Coal	1,195	-	-	-
Imported Coal	5,714	-	-	-
OTHER INDUSTRIES				
Canadian Coal	377	10	379	-
Imported Coal	573	-	-	349
SPACE HEATING				
Canadian Coal	55	136	8	-
Imported Coal	27	-	-	-
EXPORTS				
Canadian Coal	14,000	-	-	-
TOTAL DEMAND	32,232	8,159	4,988	349
PER CENT	70.4	17.9	10.9	0.8

Table 7

COAL IN STOCKPILES
(Thousands of Short Tons)

	Stocks December 31 1977	Stocks December 31 1978	Change in stocks
CANADIAN COAL			
Thermal Electric Plants	1,652	1,867	+ 215
Steel Plants	183	476	+ 293
General Industry & Space Heating	88	88	-
Collieries	992	1,067	+ 75
TOTAL	2,915	3,498	+ 583
IMPORTED BITUMINOUS			
Thermal Electric Plants	8,142	7,117	- 1,025
Steel Plants	3,080	2,646	- 434
General Industry & Space Heating	398	317	- 81
TOTAL	11,620	10,080	- 1,540
IMPORTED ANTHRACITE			
General Industry & Space Heating	173	119	- 54
GRAND TOTAL	14,708	13,697	- 1,011

Table 7

COAL IN STOCKPILES
(Thousands of Metric Tonnes)

	Stocks December 31 1977	Stocks December 31 1978	Change in stocks
CANADIAN COAL			
Thermal Electric Plants	1,499	1,694	+ 195
Steel Plants	166	432	+ 266
General Industry & Space Heating	80	80	-
Collieries	900	968	+ 68
TOTAL	2,645	3,174	+ 529
IMPORTED BITUMINOUS			
Thermal Electric Plants	7,386	6,456	- 930
Steel Plants	2,794	2,400	- 394
General Industry & Space Heating	361	288	- 73
TOTAL	10,541	9,144	- 1,397
IMPORTED ANTHRACITE			
General Industry & Space Heating	157	108	- 49
GRAND TOTAL	13,343	12,426	- 917

Table 8

EXPORT DEMAND FOR CANADIAN COAL
(Thousands of Short Tons)

COUNTRY	1977		1978	
	TONS (000)	\$ (000)*	TONS (000)	\$ (000)*
Japan	11,741	607,479	12,144	643,365
United States	4	34	13	155
Denmark	421	12,509	341	10,766
Chile	-	-	82	4,106
France	29	721	-	-
Korea	394	20,586	590	30,458
Germany	347	9,096	542	15,865
Sweden	59	2,397	170	7,891
Mexico	196	9,433	46	2,453
Romania	57	2,748	250	12,564
Belgium	89	4,608	192	9,076
Brazil	217	10,264	632	32,669
Argentina	28	1,336	56	2,932
Italy	72	2,925	181	8,421
Taiwan	-	-	29	1,477
Spain	-	-	165	8,641
TOTAL	13,654	684,136	15,433	790,839

* FOB Port of Export Canadian Dollars.

Table 8

EXPORT DEMAND FOR CANADIAN COAL
(Thousands of Metric Tonnes)

COUNTRY	1977		1978	
	TONS (000)	\$ (000)*	TONS (000)	\$ (000)*
Japan	10,651	607,479	11,017	643,365
United States	4	34	12	155
Denmark	382	12,509	309	10,766
Chile	-	-	74	4,106
France	26	721	-	-
Korea	357	20,586	535	30,458
Germany	315	9,096	492	15,865
Sweden	54	2,397	154	7,891
Mexico	178	9,433	42	2,453
Romania	52	2,748	227	12,564
Belgium	81	4,608	174	9,076
Brazil	197	10,264	573	32,669
Argentina	25	1,336	51	2,932
Italy	65	2,925	164	8,421
Taiwan	-	-	26	1,477
Spain	-	-	150	8,641
TOTAL	12,387	684,136	14,000	790,839

* FOB Port of Export Canadian Dollars.

SUMMARY OF COAL DEMAND
1974 - 1978
(Thousands of Short Tons)

Table 9

DEMAND	1974	1975	1976	1977	1978
THERMAL ELECTRIC					
Canadian Coal	9,618	10,894	12,958	15,289	15,356
Imported Coal	7,388	7,336	8,035	9,449	9,903
TOTAL	17,006	18,230	20,993	24,738	25,259
METALLURGICAL					
Canadian Coal	811	1,044	793	1,034	1,317
Imported Coal	7,457	6,996	7,352	6,312	6,299
TOTAL	8,268	8,040	8,145	7,346	7,616
GENERAL INDUSTRY					
Canadian Coal	608	671	671	762	845
Imported Coal	1,123	891	1,060	1,007	1,016
TOTAL	1,731	1,562	1,731	1,769	1,861
SPACE HEATING					
Canadian Coal	317	256	208	180	219
Imported Coal	33	35	30	24	30
TOTAL	350	291	238	204	249
EXPORTS					
Canadian Coal	11,600	12,600	13,070	13,654	15,433
TOTAL					
Canadian Coal	22,954	25,465	27,700	30,919	33,170
Imported Coal	16,001	15,258	16,477	16,792	17,248
TOTAL COAL DEMAND	38,955	40,723	44,177	47,711	50,418

SUMMARY OF COAL DEMAND
1974 - 1978
(Thousands of Metric Tonnes)

Table 9

DEMAND	1974	1975	1976	1977	1978
THERMAL ELECTRIC					
Canadian Coal	8,725	9,883	11,755	13,870	13,931
Imported Coal	6,702	6,655	7,289	8,572	8,984
TOTAL	15,427	16,538	19,044	22,442	22,915
METALLURGICAL					
Canadian Coal	736	947	719	938	1,195
Imported Coal	6,765	6,347	6,670	5,726	5,714
TOTAL	7,501	7,294	7,389	6,664	6,909
GENERAL INDUSTRY					
Canadian Coal	551	609	609	691	766
Imported Coal	1,019	808	962	914	922
TOTAL	1,570	1,417	1,571	1,605	1,688
SPACE HEATING					
Canadian Coal	288	232	189	163	199
Imported Coal	30	32	27	22	27
TOTAL	318	264	216	185	226
EXPORTS					
Canadian Coal	10,523	11,430	11,857	12,387	14,000
TOTAL					
Canadian Coal	20,823	23,101	25,129	28,049	30,091
Imported Coal	14,516	13,842	14,948	15,234	15,647
TOTAL COAL DEMAND	35,339	36,943	40,077	43,283	45,738

Table 10

SUMMARY OF COAL DEMAND
1969 - 1978
(On a Percentage Basis)

Year	Tonnage (000 Short Tons)	Electric Power Industry	Steel Industry	General Industry	Space Heating	Exports
		%	%	%	%	%
1969	27,419	43.4	25.5	21.3	4.8	5.0
1970	32,692	46.5	24.3	12.7	3.1	13.4
1971	35,670	48.3	20.1	7.8	2.1	21.7
1972	36,128	46.3	19.8	6.2	1.6	26.1
1973	38,892	42.6	21.9	5.3	1.0	29.2
1974	38,955	43.7	21.2	4.4	0.9	29.8
1975	40,723	44.8	19.8	3.8	0.7	30.9
1976	44,177	47.5	18.5	3.9	0.5	29.6
1977	47,711	51.9	15.4	3.7	0.4	28.6
1978	50,418	50.1	15.1	3.7	0.5	30.6

Table 10

SUMMARY OF COAL DEMAND
1969 - 1978
(On a Percentage Basis)

Year	Tonnage (000 Metric Tonnes)	Electric Power Industry	Steel Industry	General Industry	Space Heating	Exports
		%	%	%	%	%
1969	24,874	43.4	25.5	21.3	4.8	5.0
1970	29,658	46.5	24.3	12.7	3.1	13.4
1971	32,359	48.3	20.1	7.8	2.1	21.7
1972	32,775	46.3	19.8	6.2	1.6	26.1
1973	35,282	42.6	21.9	5.3	1.0	29.2
1974	35,339	43.7	21.2	4.4	0.9	29.8
1975	36,943	44.8	19.8	3.8	0.7	30.9
1976	40,077	47.5	18.5	3.9	0.5	29.6
1977	43,283	51.9	15.4	3.7	0.4	28.6
1978	45,738	50.1	15.1	3.7	0.5	30.6

Table 11

SUMMARY OF COAL SUPPLY-DEMAND
1969-1978
(Millions of Short Tons)

YEARS	CANADA PRODUCTION				IMPORTS		Total Available	Domestic Consumption	Exports
	Bituminous	Sub- Bituminous	Lignite	Total	Anthracite	Bituminous			
1969	5.5	3.2	2.0	10.7	0.5	16.7	27.9	26.0	1.4
1970	8.9	3.9	3.8	16.6	0.5	18.9	36.0	28.3	4.4
1971	10.7	4.4	3.3	18.4	0.5	17.3	36.2	27.9	7.7
1972	12.5	4.9	3.3	20.7	0.5	18.1	39.3	6.7	9.4
1973	13.6	5.0	4.0	22.6	0.5	16.1	39.2	27.6	11.3
1974	13.8	5.6	3.9	23.3	0.4	13.2	36.9	27.4	11.6
1975	17.4	6.6	3.9	27.9	0.4	17.0	45.3	28.1	12.6
1976	15.9	7.1	5.1	28.1	0.3	15.8	44.2	31.1	13.1
1977	16.9	8.7	6.0	31.6	0.4	16.6	48.6	34.0	13.7
1978	18.9	9.1	5.6	33.6	0.4	15.2	49.2	35.0	15.4

Table 11

SUMMARY OF COAL SUPPLY-DEMAND
1969-1978
(Millions of Metric Tonnes)

YEARS	CANADA PRODUCTION				IMPORTS		Total Available	Domestic Consumption	Exports
	Bituminous	Sub- Bituminous	Lignite	Total	Anthracite	Bituminous			
1969	5.0	2.9	1.8	9.7	0.4	15.2	25.3	23.6	1.3
1970	8.1	3.5	3.4	15.0	0.4	17.2	32.6	25.7	4.0
1971	9.7	4.0	3.0	16.7	0.4	15.7	32.8	25.3	7.0
1972	11.3	4.4	3.0	18.7	0.4	16.4	35.5	24.2	8.5
1973	12.3	4.5	3.6	20.4	0.4	14.6	35.4	25.0	10.3
1974	12.5	5.1	3.5	21.1	0.4	12.0	33.5	24.9	10.5
1975	15.8	6.0	3.5	25.3	0.4	15.4	41.1	25.5	11.4
1976	14.4	6.4	4.7	25.5	0.3	14.3	40.1	28.2	11.9
1977	15.3	7.9	5.5	28.7	0.4	15.0	44.1	30.8	12.4
1978	17.1	8.3	5.1	30.5	0.3	13.8	44.6	31.7	14.0

Table 12

SUMMARY OF COAL SUPPLY AND DEMAND
Equivalent Bituminous Coal
(Thousands of Short Tons)

	1974	1975	1976	1977	1978
Supply					
Canada Production	19,477	23,730	23,154	25,696	27,760
IMPORTED	13,628	17,420	16,097	16,997	15,549
TOTAL SUPPLY	33,105	41,150	39,251	42,693	43,309
Demand					
Electric Power Industry	13,642	14,475	16,479	20,022	19,765
Steel Industry	8,268	8,040	8,145	7,346	7,616
General Industry & Space Heating	1,806	1,594	1,544	1,558	1,847
EXPORTS	11,600	12,600	13,070	13,654	15,433
TOTAL DEMAND	35,316	36,709	39,238	42,580	44,661
Conversion factor Bituminous 25.8 millions BTU					
Sub-Bituminous 17.0 millions BTU					
Lignite 13.2 millions BTU					
Anthracite 25.8 millions BTU					

Table 12

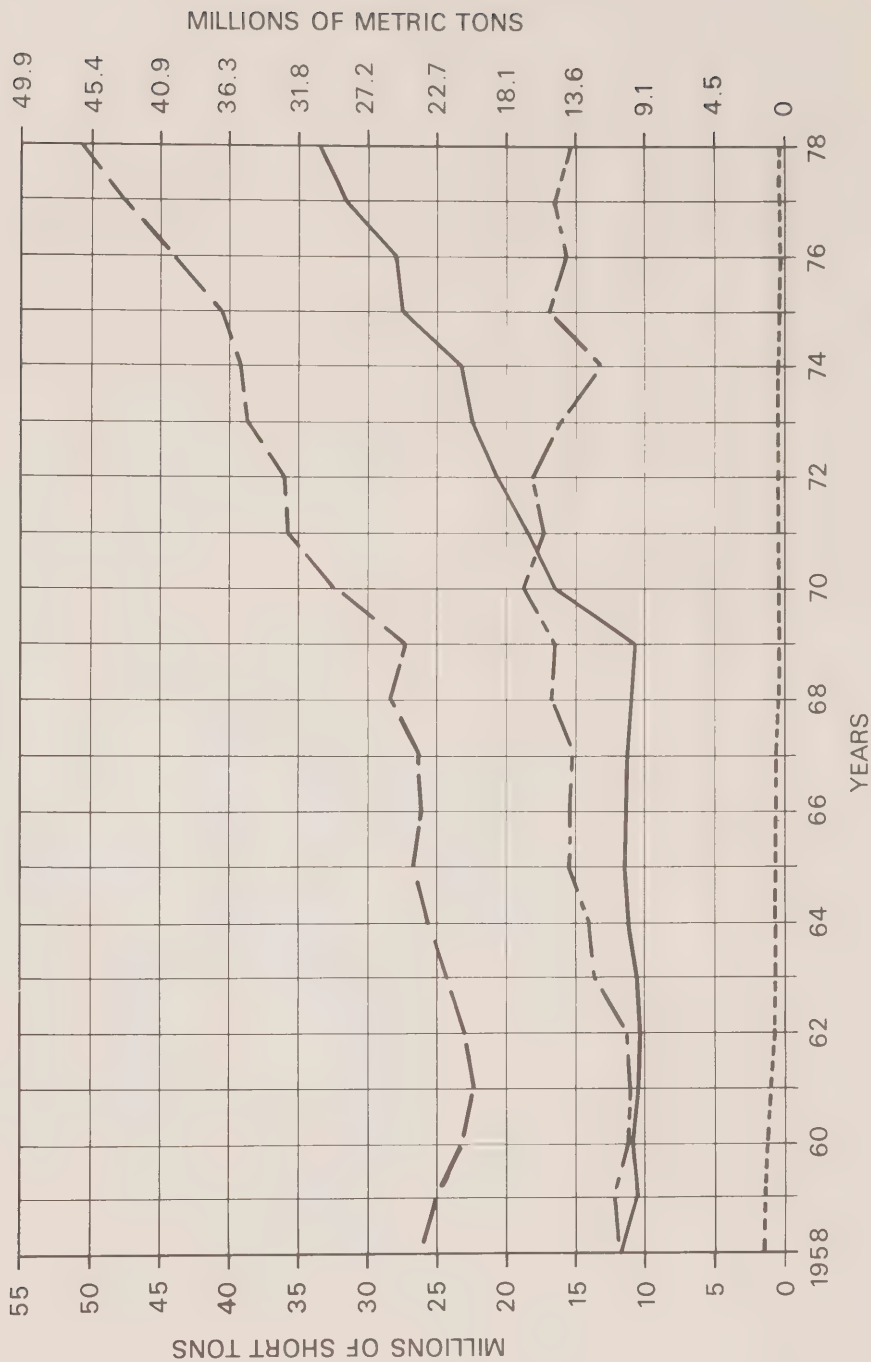
SUMMARY OF COAL SUPPLY AND DEMAND
Equivalent Bituminous Coal
(Thousands of Metric Tonnes)

	1974	1975	1976	1977	1978
Supply					
Canada Production	17,669	21,528	21,005	23,311	25,183
IMPORTED	12,363	15,803	14,603	15,419	14,106
TOTAL SUPPLY	30,032	37,331	35,608	38,730	39,289
Demand					
Electric Power Industry	12,376	13,132	14,949	18,164	17,931
Steel Industry	7,501	7,294	7,389	6,664	6,909
General Industry & Space Heating	1,638	1,446	1,401	1,413	1,676
EXPORTS	10,523	11,430	11,857	12,387	14,000
TOTAL DEMAND	32,038	33,302	35,596	38,628	40,516

COAL TRENDS IN CANADA

REFERENCE

- TOTAL COAL DEMAND ———
- U.S. BITUMINOUS IMPORTS — · — · —
- CANADIAN PRODUCTION —————
- ANTHRACITE IMPORTS - - - - -





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